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ABSTRACT

An odor controlling material [is disclosed] and an absorbent article containing material for removing or reducing odor emanating from certain gaseous and liquid compounds [which material comprises an inorganic absorbent material doped with one or more dopants selected from the liquid] compounds [and derivatives thereof] in bodily fluid. The odor controlling material includes conventional absorbent materials such as silica, alumina, silicates, and natural and synthetic aluminosilicates [can be used and certain a] that are doped with one or more dopants, which have the same or similar chemical characteristics as the gaseous or liquid compounds in the body fluid to be absorbed. These dopants include [are selected from] fatty acids and their derivatives, amines and their salts, ammonia [and salts thereof], alcohols, aldehydes, ketones, heterocompounds[.] containing at least one nitrogen, sulfur or oxygen atom and mixtures thereof. The odor control material is suitable for incorporation in an absorbent article such as a pantiliner or a sanitary napkin.



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1. (Amended) An odor controlling material [for removing or reducing odors emanating from certain gaseous or liquid compounds which comprises an inorganic absorbent material] comprising, an absorbent material, said absorbent material being selected from the group consisting of silica, alumina, silicates, natural and synthetic aluminosilicates and mixtures thereof, said absorbent material being doped with one or more dopants [which are] selected from the [gaseous or liquid compounds and derivatives thereof, and compounds belonging to the same chemical class or having similar functionalities] group consisting of fatty acids and their derivatives, ammonia , alcohols, aldehydes, ketones, heterocompounds containing at least one nitrogen, sulfur or oxygen atom and mixtures thereof.
5. (Amended) An odor controlling material according to claim 3, wherein the fatty acids are selected from straight and branched chain fatty acids containing from 1 to 12 carbons atoms [;], alkali and alkaline earth metal salts [thereof] and their esters[;], ammonium salts and amides.
7. (Amended) A odor controlling material according to claim 3, wherein the heterocompounds are selected from the group consisting of heterocyclic compounds containing one or two heteroatoms selected from nitrogen, sulfur, and oxygen[;], mercapto-compounds, thio-compounds, and other compounds

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containing at least one sulfur atom per molecule and having a boiling point of up to 170° C [and] at atmospheric pressure.

11. (Amended) An absorbent article comprising [having incorporated therein] at least one [odor controlling] material [according to Claim 1], said material being selected from the group consisting of silica, alumina, silicates, natural and synthetic aluminosilicates and mixtures thereof, said absorbent material being doped with one or more dopant selected from the group consisting of fatty acids and their derivatives, amines and their salts ammonia , alcohols, aldehydes, ketones, heterocompounds containing at least one nitrogen, sulfur or oxygen atom and mixtures thereof.

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